			UNITED STATES DEPAR United States Patent and Address: COMMISSIONER F P.O. Box 1450 Alexandria, Virginia 223 www.uspto.gov	Trademark Office OR PATENTS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,129	06/13/2002	Anant Achyut Setlur	RD-28679	3223
6147 75	590 02/08/2006		EXAM	INER
GENERAL ELECTRIC COMPANY			HODGES, MATTHEW P	
GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59			ART UNIT	PAPER NUMBER
NISKAYUNA, NY 12309				

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/064,129	SETLUR ET AL.			
Office Action Summary	Examiner	Art Unit			
	Matt P. Hodges	2879			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from c, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
<ul> <li>1) Responsive to communication(s) filed on <u>10 ∧</u></li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowa closed in accordance with the practice under <i>1</i></li> </ul>	s action is non-final. nce except for formal matters, pr				
Disposition of Claims					
4)⊠ Claim(s) <u>See Continuation Sheet</u> is/are pending in the application.					
4a) Of the above claim(s) <u></u> is/are withdrawn from consideration.					
5) Claim(s) $\underline{29}$ is/are allowed.					
6) Claim(s) <u>7-17,19-22,24-28,30,31,33,34,36-39,41,42,44-47,49,50,52-55,57,59-61,63 and 65-84</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10) The drawing(s) filed on <u>13 June 2002</u> is/are: a		by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correc	tion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreigr a) All b) Some * c) None of:	ı priority under 35 U.S.C. § 119(a	)-(d) or (f).			
1. Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document	ts have been received in Applicat	ion No			
3. Copies of the certified copies of the prio	-	ed in this National Stage			
application from the International Burea		ad			
* See the attached detailed Office action for a list	or the centiled copies not receive	eu.			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summary				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail D				
U.S. Patent and Trademark Office					

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# **DETAILED ACTION**

#### **Response to Amendment**

The Amendment, filed on 11/10/2005, has been entered and acknowledged by the

Examiner.

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#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7-17, 19-22, 24-28, 30, 31, 33, 34, 36-39, 41, 42, 44-47, 49, 50, 52-55, 57, 59-61,

63, and 65-84 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimizu et al. (US

6,153,971).

Regarding claims 7-11, 14-17, 19-22, 24-28, 30, 31, 33, 34, 36-39, 41, 42, 44-47, 49, 50, 52-55, 68-71, and 74-81, Shimizu discloses a gas discharge lamp including a tube filled with mercury vapor. The tube is coated with a phosphor blend including selections among the following phosphors LaPO<sub>4</sub>:Ce, Tb,  $Y_2O_3$ :Eu,  $Y_3Al_5O_{12}$ :Ce  $2SrO_{(1-n)}P_2O_5nB_2O_3$ :Eu, 3.5MgO0.5MgF<sub>2</sub>GeO<sub>2</sub>:Mn, (Sr, Ca, Ba)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>Cl:Eu, Sr<sub>4</sub>Al<sub>14</sub>O<sub>25</sub>:Eu (The reference includes a typographical error – the phosphor should read as listed here), and GdMgB<sub>5</sub>O<sub>10</sub>:Ce, Mn (Column 10 lines 10-20, Column 17 lines 30-35 and lines 50-57, Column 18 lines 20-27, and Column 19 lines 25-35 and lines 60-65). It is noted that the mercury discharge tube of this type

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emits UV radiation primarily at around 254nm and 405nm. The phosphor blend is likewise sensitive to this wavelength.

Regarding claims 12, 13, 72, and 73, Shimizu does not explicitly state the color coordinates of the white light however color coordinates of a phosphor blend are an inherent property of the blend itself. In this case the color coordinates are substantially close to the reference color of a black body locus.

Regarding claims 57, 59-61, and 82, Shimizu does not explicitly state the CRI range of the end phosphor blend however the CRI is an inherent property of the blend itself. In this case the phosphor blend would ideally have a CRI of greater than 80.

Regarding claim 63, 65-67, 83, and 84, Shimizu does not explicitly state the CCT range of the end phosphor blend however the CCT is an inherent property of the blend itself. In this case the CCT would be less than 6500K and greater than 2700K.

## Allowable Subject Matter

Claims 29 is allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 29, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 29, and specifically comprising the limitation of a phosphor blend of the stated phosphors where the phosphor blend absorbs EM radiation in a range from about 200nm to 400nm. See applicant's response filed 12/14/2004 for further explanation.

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# Conclusion

As allowable subject matter has been withdrawn, prosecution has been reopened and this action is made non-final.

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt P Hodges whose telephone number is (571) 272-2454. The examiner can normally be reached on 7:30 AM to 4:00 PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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NIMESHKUMAR D. PATEL SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

Continuation of Disposition of Claims: Claims pending in the application are 7-17,19-22,24-31,33,34,36-39,41,42,44-47,49,50,52-55,57,59-61,63 and 65-84.